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REQUEST FOR CORRECTING OBVIOUS ERRORS

To: Commissioner of Patents Yasuo Imai

1. International Application No. PCT/JP03/06221

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4. Matters to be Corrected Claims

5. Matters Corrected As shown in the attached sheets

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CLAIMS

- (1) A method for generating/displaying a plane shape, comprising the steps of:  
    setting an equivalent normal line with a tangent plane in each vertex of a polygonal shape plane patch which is a basic form necessary for generating/displaying a shape, and setting a tangent line by decomposing said set normal line in a predetermined direction on an equivalent tangent plane; and  
    specifying a tangent line at position where an equivalent normal line with a new tangent plane between two corresponding vertexes and in a direction which is concerned with corresponding vertexes.
- (2) A method for generating/displaying a plane shape, said method setting, at a specified position, an equivalent normal line with a tangent plane based on a predetermined normal line and on a specified position and tangent line information.
- (3) A method for generating/displaying a plane shape, said method setting, at a specified position, an equivalent normal line with a tangent plane based on a predetermined normal line and on a specified position information.
- (4) The method for generating/displaying a plane shape according to claim 2 or 3, wherein vertexes on which said predetermined normal line exists are combined; a normal line existing at each predetermined vertex is decomposed on an equivalent tangent surface; and a normal line at a position where an equivalent normal line with a new tangent plane between two vertexes is set and in a direction which is concerned with two corresponding vertexes is specified.
- (5) The method for generating/displaying a plane shape according to claim 4, wherein vertexes on which said a predetermined normal line exists are combined until a required shape generating/displaying accuracy is reached; a normal line existing at each predetermined vertex is decomposed on an equivalent tangent surface; steps of specifying a normal line at a position where a normal line equivalent with a new tangent plane between two vertexes is set and in a direction which is concerned with two corresponding vertexes is repeated; and thus generating and displaying a shape of desire.

(6) A system for generating/displaying a plane shape, comprising a means for choosing a basic patch that possesses a normal line in each one of basic patches that constitute a polyhedron; wherein

for a basic patch that is chosen, vertexes on which said predetermined normal line exists are combined until a required shape generating/displaying accuracy is reached; a normal line existing at each predetermined vertex is decomposed on an equivalent tangent surface; steps of specifying a normal line at a position where an equivalent normal line with a new tangent plane between two vertexes is set and in a direction which is concerned with two corresponding vertexes is repeated; and an operation for generating and displaying a shape of desire is controlled reflexively and sequentially; thus generating/displaying a shape of desire.

(7) A recording medium for a program for generating/displaying a plane shape comprising a means for choosing a basic patch that possesses a normal line in each one of basic patches that constitute a polyhedron; wherein

for a basic patch that is chosen, vertexes on which said predetermined normal line exists are combined until a required shape generating/displaying accuracy is reached; a normal line existing at each predetermined vertex is decomposed on an equivalent tangent surface; steps of specifying a normal line at a position where an equivalent normal line with a new tangent plane between two vertexes is set and in a direction which is concerned with two corresponding vertexes is repeated; and an operation for generating and displaying a shape of desire is controlled reflexively and sequentially; thus generating/displaying a shape of desire.